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Atty Dkt. No.: CLON-107

USSN: 10/765,244

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<u>AMENDMENT</u>

Please incorporate the following amendments into the subject application.

In the Claims:

Claims 1-29. (Cancelled)

- 30. (Currently amended) A nucleic acid which encodes a fusion protein comprising:
 - a) a reef coral fluorescent protein reporter domain, and
 - b) a protein degradation domain, wherein said protein degradation domain comprises:
 - i) a PEST targeting sequence; and
 - ii) at least one flanking sequence N-terminal of the PEST sequence comprising from about 5 to about 50 residues; and

wherein said fusion protein is at least 4 times more sensitive as a reporter of proteasome inhibition than a fusion protein that includes a d1 protein degradation domain.

- 31. (Cancelled)
- 32. (Currently amended) The nucleic acid of Claim 34 30, wherein said PEST targeting sequence is a MODC PEST targeting sequence.
- 33. (Previously presented) The nucleic acid of Claim 32, wherein said PEST targeting sequence consists of amino acids 422-461 of MODC.
- 34. (Cancelled)

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- **35**. The nucleic acid of Claim 34 30, wherein said (Currently amended) targeting sequence comprises aa 410 to 461 of MODC.
- 36. (Previously presented) The nucleic acid of Claim 30, wherein said nucleic acid is a DNA.
- 37. (Previously presented) The nucleic acid of Claim 30, wherein said nucleic acid is provided in a vector.
- 38. (Previously presented) The nucleic acid of Claim 37, wherein said vector is a plasmid or viral vector.
- 39. The nucleic acid of Claim 30, wherein said nucleic (Previously presented) acid is a RNA.
- 40. (Previously presented) The nucleic acid of Claim 30, wherein said reef coral fluorescent protein is selected from the group consisting of: ZsGreen, ZsYellow, AmCyan, AsRed, DsRed and HcRed.
- 41. (Previously presented) The nucleic acid of Claim 30 wherein said reporter domain is ZsGreen.
- 42. (Previously presented) A fusion protein encoded by the nucleic acid of Claim 30.
- 43. (Previously presented) A transgenic cell or the progeny thereof comprising the nucleic acid of Claim 30.
- 44. (Previously presented) A method of evaluating proteasome activity in a cell, said method comprising:

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introducing into said cell a nucleic acid according to Claim 30 or a protein encoded thereby; and

detecting the presence of reporter activity in said cell to assess proteasome activity in said cell.

- 45. (Previously presented) The method of Claim 44, wherein said method comprises introducing said fusion protein into said cell.
- 46. (Previously presented) The method of Claim 44, wherein said method comprises introducing said nucleic acid into said cell.
- 47. (Previously presented) The method of Claim 44, further comprising contacting said cell with an agent prior to said detecting.
- 48. (Previously presented) The method of Claim 44, further wherein said detecting comprises using flow cytometry or microscopy.
- 49. (Previously presented) The method of Claim 44, further comprising introducing into said cell a nucleic acid encoding a fusion protein comprising:
 - a fluorescent protein reporter domain and
 - a protein of interest.
- 50. (Previously presented) the method of Claim 44, further comprising introducing into said cell a nucleic acid encoding a fusion protein comprising:
 - a fluorescent protein reporter domain and
 - a second protein degradation domain.